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NOTICE OF ALLOWANCE AND FEE(S) DUE

2292

7590

06/17/2004

BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747 EXAMINER

TSAI, HENRY

ART UNIT PAPER NUMBER

2183

DATE MAILED: 06/17/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/879,004	06/13/2001	Shingo Kamitani	0033-0731P	3305

TITLE OF INVENTION: DATA-DRIVEN PROCESSOR HAVING MULTIPLE-PRECISION DATA PROCESSING FUNCTION AND DATA PROCESSING METHOD THEREOF

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	09/17/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

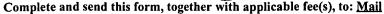
A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- □ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further cor indicated unless corrected t maintenance fee notification	respondence including the local pelow or directed otherwise as.	Patent, advance or in Block 1, by (a	ders and notificatio) specifying a new	n of maintenance fees v	ired). Blocks 1 through 4 s vill be mailed to the current and/or (b) indicating a sep	correspondence address as	
	E ADDRESS (Note: Legibly mark-up	with any corrections or	r use Block 1)	Fee(s) Transmittal. The papers. Each additional	mailing can only be used f is certificate cannot be used il paper, such as an assignm	for any other accompanying	
BIRCH STEWART KOLASCH & BIRCH PO BOX 747 FALLS CHURCH, VA 22040-0747				have its own certificate of mailing or transmission. Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the States Postal Service with sufficient postage for first class mail in an addressed to the Mail Stop ISSUE FEE address above, or being transmitted to the USPTO, on the date indicated below.			
						(Depositor's name)	
						(Signature)	
						(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVE	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/879,004	06/13/2001	•	Shingo Kamita	ni	0033-0731P	3305	
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APPLN. TYPE	SMALL ENTITY	ISSUE F	EE I	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1330)	\$300	\$1630	09/17/2004	
EXAM	INER	ART UNIT		CLASS-SUBCLASS			
TSAI, F	IENRY	2183		712-025000			
Address form PTO/SB/12 "Fee Address" indication PTO/SB/47; Rev 03-02 of Number is required. 3. ASSIGNEE NAME AND PLEASE NOTE: Unless	ence address (or Change of C 22) attached. on (or "Fee Address" Indicator more recent) attached. Use RESIDENCE DATA TO B an assignee is identified beld to the USPTO or is being s	Correspondence ion form e of a Customer E PRINTED ON Town, no assignee disubmitted under sej	names of up to agents OR, alter firm (having as agent) and the rattorneys or age will be printed. FHE PATENT (print ata will appear on tiparate cover. Compl	he natent. Inclusion of as	storneys or 1	ate when an assignment ha	
Please check the appropriate 4a. The following fee(s) are I Issue Fee Publication Fee Advance Order - # of order	enclosed: Copies	4b	D. Payment of Fee(s) A check in the au Payment by cred The Director is Deposit Account N	: mount of the fee(s) is enc it card. Form PTO-2038 hereby authorized by ch umber_		credit any overpayment, to	
(Authorized Signature)		(Date)				· · · · · · · · · · · · · · · · · · ·	
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NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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FALLS CHURC	CH, VA 22040-0747		2183	
			DATE MAILED: 06/17/200	4 4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 674 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 674 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
	Application No.	Applicant(s)	a de
Notice of Allowahility	09/879,004	KAMITANI, SHINGO	
Notice of Allowability	Examiner	Art Unit	
	Henry W.H. Tsai	2183	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i i) or other appropriate comm RIGHTS. This application is	n this application. If not included unication will be mailed in due co	urse. THIS
1. \square This communication is responsive to <u>6/13/01</u> .			
2. The allowed claim(s) is/are <u>1-6</u> .			
3. \square The drawings filed on $___$ are accepted by the Examine	er.		
 4. Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have linternational Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	re been received. re been received in Applicati	on No	n from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	" of this communication to file MENT of this application.	e a reply complying with the requi	rements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which gives			TICE OF
6. ☑ CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftsper 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☒ including changes required by the attached Examiner Paper No./Mail Date 4. Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	rson's Patent Drawing Revie r's Amendment / Comment o	r in the Office action of he drawings in the front (not the ba	ick) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	osit of BIOLOGICAL MAT	ERIAL must be submitted. Not	e the
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date	6. ☐ Interview S Paper No. 7. ☑ Examiner's 8. ☑ Examiner's	nformal Patent Application (PTO-1 summary (PTO-413), /Mail Date · Amendment/Comment · Statement of Reasons for Allowa <u>ving Corrections</u> .	·



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DETAILED ACTION

Informal Examiner's Amendment

1. An informal examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In Specification:

at page 18, line 21, "PA(IN)" has been changed to -PA1(IN)--.

In claims:

In claim 1, line 16, "(ii-1)" has been changed to --(ii)--; line 18, "(ii-2)" has been changed to --(iii)--; and line 19, "(ii-3)" has been changed to --(iv)--;

In claim 5, line 4, "applied said" has been changed to -- said applied--; and

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In claim 6, line 12, "(ii-1)" has been changed to --(i)--; line 14, "(i)" has been changed to --(ii)--; and line 16, "(ii-2)" has been changed to --(iii)--; and line 17, "(ii-3)" has been changed to --(iv)--.

In drawings:

In Figure 9, the first (left) Y in reference No. 21 has been changed to -X--; and

In Figure 16, inside S1 block, "Resat" has been changed to --Reset--.

In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

Allowable Subject Matter

- 2. Claims 1-6 are allowed.
- 3. The following is an examiner's statement of reasons for allowance: Yumoto et al. (U.S. Patent No. 5,640,525), the closest reference, and the other prior art, do not teach or fairly suggest:

overflowing data accumulating means (or step) for accumulating the overflowing data onto the memory data in the

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region at an upper prescribed address different from the prescribed address in the memory and the accumulation by the overflowing data accumulating means (or step) is repeated as long as the accumulation causes the overflowing data in the region at the prescribed address in combination with all of the other limitations in the respective independent claims (claims 1 and 6) and the combination is not obvious.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure wherein Okamoto et al.'991 discloses a data driven information processor for processing data packet including common identification information and plurality of pieces of data. FIG. 7A is a diagram showing a data packet input to firing control portion 203 comprising instruction information 701, node number 702, and generation number 703. Tamura et al.'720 discloses: a taken

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storage apparatus using a hash memory and a cam. FIG. 4 is a block diagram showing a configuration in the case of applying a data retrieving apparatus in accordance with the present invention to a fire processing unit for a data-driven processor. Yumoto et al.'525 discloses a data-driven information processing devices. As shown in FIG. 16, a data-driven processor 100 (the first embodiment) includes a constant data memory/dynamic firing control mechanism (CST/FC) 106, input/output control unit 102, a program storage mechanism 104, and an operation processing mechanism 108; and a data-driven processor 300 (the fourth embodiment) as shown in FIG. 31, a CST/FC 302 is provided. CST/FC 302 is a modification of the structure of the first embodiment with a plurality of firing control main processing units provided.

Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Henry Tsai whose telephone number is (703) 308-7600. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 5:00 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner supervisor, Eddie Chan, can be reached on (703)

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305-9712. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the TC 2100 receptionist whose telephone number is (703) 305-3900.

6. In order to reduce pendency and avoid potential delays,
Group 2100 is encouraging FAXing of responses to Office actions
directly into the Group at fax number: 703-872-9306.

This practice may be used for filing papers not requiring a fee. It may also be used for filing papers which require a fee by applicants who authorize charges to a PTO deposit account. Please identify the examiner and art unit at the top of your cover sheet. Papers submitted via FAX into Group 2100 will be promptly forward to the examiner.

HENRY W. H. TSAI

BYIMARY EXAMINER

June 14, 2004

FIG. 15A PRIOR ART

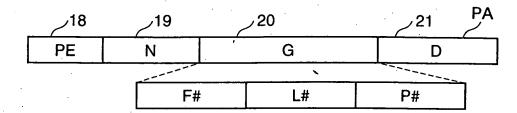


FIG. 15B PRIOR ART

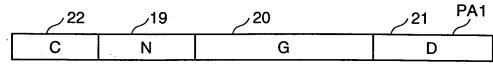


FIG. 16 PRIOR ART

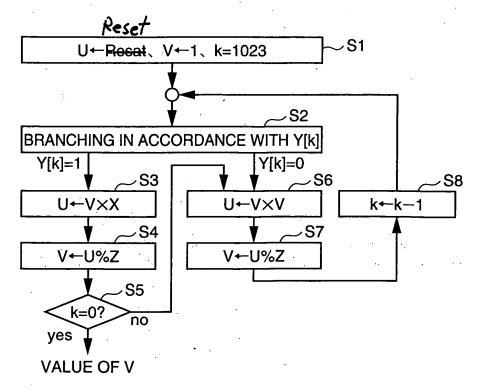


FIG. 9

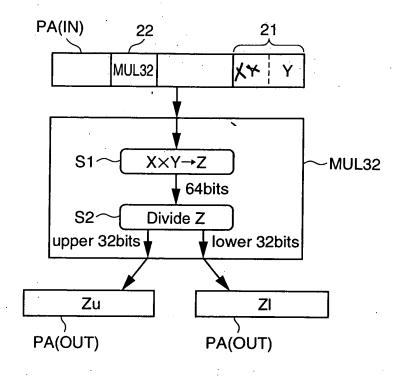


FIG. 10

